



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,167	01/08/2002	Helmut Kreuzer	1764	4987
7590 08/14/2006			EXAMINER	
Striker Striker & Stenby 103 East Neck Road Huntington, NY 11743			KIM, PAUL D	
			ART UNIT	PAPER NUMBER
			3729	

DATE MAILED: 08/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/937,167

Applicant(s)

KREUZER ET AL.

Examiner

Paul D. Kim

Art Unit

3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 November 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 and 20-22 is/are pending in the application.
- 4a) Of the above claim(s) 10 and 20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) 4-9 and 11 is/are allowed.
- 6) ☐ Claim(s) 1-3, 21 and 22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. This office action is a response to the amendment with RCE filed on 11/21/2005

Examiner's Comment

2. Upon further consideration, examiner hereby withdraws the last office action mailed on 12/2/2005. In view of found a new submitted claim 22 in the amendment filed on 11/21/2005, the last office action mailed on 12/2/2005 is hereby withdrawn.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 3, 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adachi et al. (US PAT. 6,317,962).

Adachi et al. teach a process of making a stator comprising steps of: proving a substantially parallelepiped shape (50) with slots (51a) extending parallel on one side as shown in Fig. 2; inserting a core winding (52) is inserted by its winding sides (51a) as shown in Fig. 3; and reshaping the core (50) together with the core winding (52) is into a cylindrical ring shape (5) with radially inward-oriented slots as shown in Fig. 1. Also, Adachi et al. teach that the core winding (52) is preformed into a shape which is generally flat and which needs not be further formed within the slots (51a) as shown in

FIG. 2, which is equivalent with the recitation of "all winding sides that are inserted into each slot are put into a slot shape in a tool and reshaped plastically before being inserted into the slot to permanently assume the slot shape". Even though Adachi et al. do not teach the tool for plastically reshaped all winding sides before being inserted into the slot to permanently assume the slot shape, the core winding of Adachi et al. has been already preformed (plastically reshaped) in the slot shape in a tool (not shown) and does not need further formed within the slots (which is equivalent with permanently assume the slot shape) before being inserted into the slot (see also col. 2, lines 50-67). Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the core winding of Adachi et al. by using the tool for reshaping the core winding into permanently assume the slot in order to reduce the procedure (or extra steps) to make the stator.

In addition, even though Adachi et al. do not teach that the core winding is pressed into the slot, it would be obvious to apply a force (equivalent with press) either by hand or machine to put the core winding into the slot in order to arrange the core winding relatively into the slots (as per claim 3).

5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Adachi et al. in view of Rich (US PAT. 4, 102,040).

Adachi et al. teach all of the limitations as set forth above except one half-tooth each of core ends in the circumferential direction. Rich teaches a process of making a stator including a process of bending a core having slots (as shown in Fig. 3), wherein one half-tooth (5) is located at each of core ends in the circumferential direction as

Art Unit: 3729

shown in Fig. 2 in order to weld one end to the other easily (see col. 9, lines 48-63).

Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the core winding of Adachi et al. by one half-tooth being at each of core ends in the circumferential direction as taught by Rich in order to weld one end to the other easily.

Allowable Subject Matter

6. Claims 4-9 and 11 are allowed.

Response to Arguments

7. Applicant's arguments with respect to claims 1-11 and 20-22 have been considered but are moot in view of the new ground of rejection.

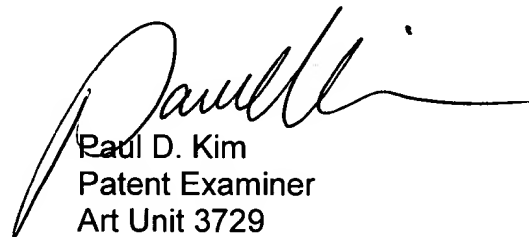
Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Thursday between 6:00 AM to 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3729

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Paul D. Kim
Patent Examiner
Art Unit 3729